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JUN 2 0 2005
PATENT & TRADEMARK OFFICE



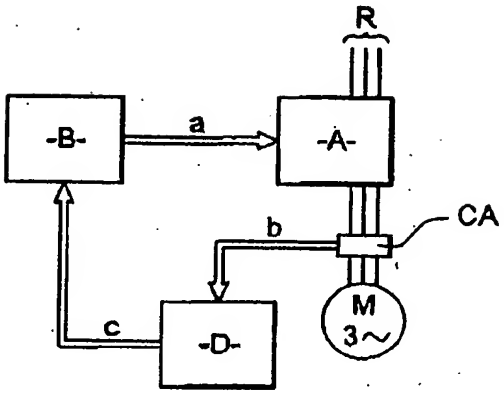


Fig. 1

PRIOR ART

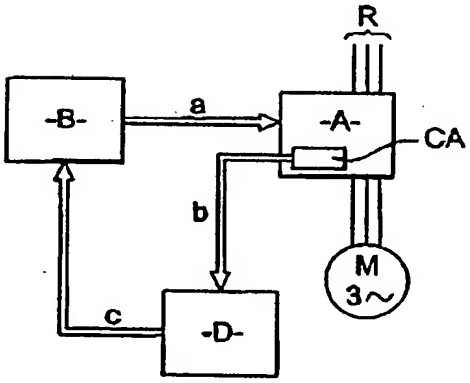


Fig. 2

PRIOR ART

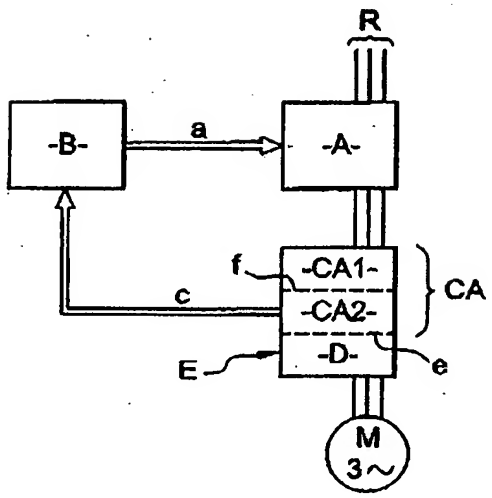
R
-B-
a
-A-
f
-CA1-
CA
c
-CA2-
-D-
E
e
M
3~

Fig. 3

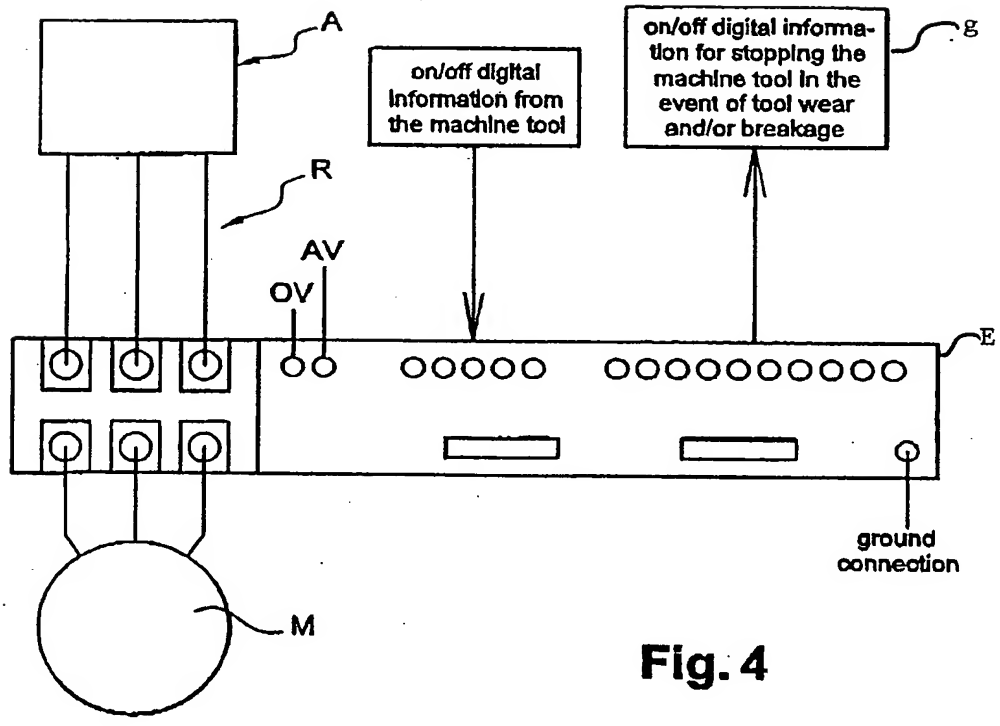
A
on/off digital information from the machine tool
on/off digital information for stopping the machine tool in the event of tool wear and/or breakage
g
R
AV
OV
E
ground connection
M

Fig. 4

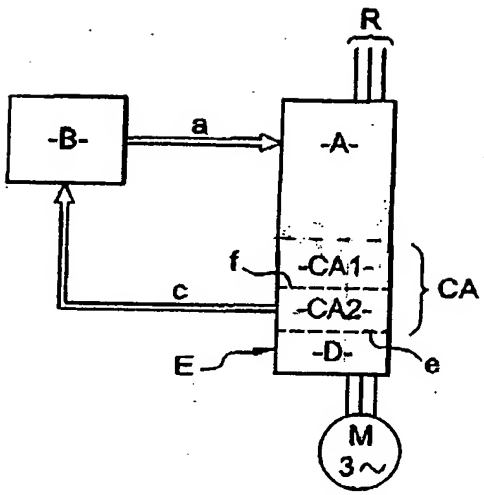


Fig. 5

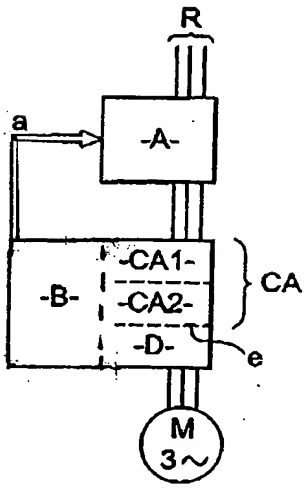


Fig. 6

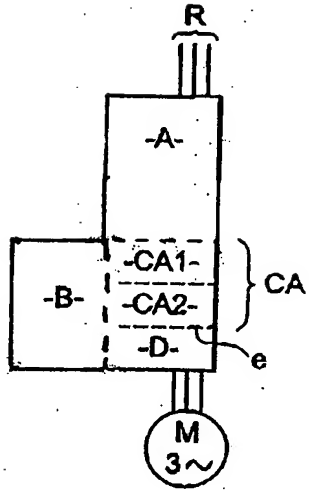


Fig. 7